RRRRRRRRRRR RRRRRRRRRR RRRRRRRRRRR RRR	RR	MMM MMM MMM MMMMMM	MMM MMM MMM MMMMMM	SS	\$\$\$\$ \$\$\$\$ \$\$\$\$	SSS	SSSS	
RRR RRR RRR RRR RRR RRRRRRRRRRR RRRRRRR	RRR RRR RRR RRR RRR	MMMMMM MMM MMM MMM MMM MMM MMM MMM MMM MMM	MMMMMM MMMMMM MMM PMMM	\$\$\$ \$\$\$ \$\$\$ \$\$\$ \$\$\$	SSSS			
RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	RR	MMM MMM MMM MMM	MMM MMM MMM MMM		ŠŠŠŠ		\$\$\$ \$\$\$ \$\$\$ \$\$\$	
	RR RR RRR RRR RRR	MMM MMM MMM MMM	MMM MMM MMM MMM	\$\$\$\$\$\$ \$\$\$\$\$ \$\$\$\$\$	SSSS	SSS	5	

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1 7 16-SEP-1984 00:08:05 VAX/VMS Macro V04-00 NTOSEARCH Table of contents Page NETWORK SEARCH FILES 0 DECLARATIONS NTSSEARCH - PERFORM NETWORK SEARCH FUNCTION UPDATE_FAB 58 96 509

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\$BEGIN NTOSEARCH,000,NF\$NETWORK, <NETWORK SEARCH FILES>

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: Facility: RMS

Abstract:

This module communicates with the File Access Listener (FAL) at the remote node to perform the search function.

Environment: VAX/VMS, executive mode

J 7

Creation Date: 10-SEP-1979 Author: James A. Krycka,

Modified By:

JAK0138 J A Krycka 28-MAR-1984 Call modified NT\$EXCH_CNF routine with a parameter. V03-005 JAK0138

JEJ0015 J E Johnson 26-Mar-1984 Modify NT\$SEARCH to look for NAM\$V_SRCHXABS in NOP field as the signal to return XAB information on a \$SEARCH operation. V03-004 JEJ0015

V03-003 JAK0114 23-JUN-1983 J A Krycka Fix bug in V03-002.

V03-002 KRM0111 31-May-1983 K Malik Update to support DAP V7.0 message exchange sequence.

None

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Page

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.SBTTL NTSSEARCH - PERFORM NETWORK SEARCH FUNCTION
             98
99
100
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110
                        NT$SEARCH - engages in a DAP dialogue with the remote FAL to obtain a list of directory entries that match a given (wildcard) file specification.
                                    The first call to NT$SEARCH causes RMS to request that FAL perform the DAP directory-list function and returns the resultant name string of the first file that matches the expanded name string template. Thereafter, each call to NT$SEARCH returns the resultant name string of the next match until no more files are found or an error occurs.
                                    Further, if the NAM$L_NOP field has the NAM$V_SRCHXABS bit set then the FAB and certain XABs Chained to it will be updated. This is done to
support the DIRECTORY utility which would otherwise have to open each file to obtain its attributes, causing a separate invocation of FAL for each file!
             114
115
116
117
                         Calling Sequence:
                                                    NT$SEARCH
                                     BSBW
             1112234567890123456789012444466789012
11112234567890123456789012344456789012
                         Input Parameters:
                                                     First-time-thru flag in bit0 (0=no, 1=yes)
                                                     FAB address
                                                     IFAB address
                                     R10
                                                     FWA address
                                     R11
                                                     Impure Area address
                         Implicit Inputs:
                                    DAPSQ_SYSCAP
DAPSV_STM_ONLY
FWA fields
                                    IFBSL_NWA_PTR
NAMSV_SRCHXABS
NWASV_FTM_CONT
                         Output Parameters:
                                                     Status code (RMS)
                                     R1-R7
                                                    Destroyed
                                                    Destroyed
                         Implicit Outputs:
                                    FWASY_REMRESULT
NWASY_FIM_CONT
                         Completion Codes:
                                     Standard RMS completion codes
                         Side Effects:
```

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PS Cr As Th

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-\$ TO 24 Th

MA

this additional output to avoid opening each file to obtain its file

(3)

Ta

attributes, which would be very very costly in a network context. Since network search is implemented using the DAP directory list operation, XAB information can be requested on search, thus requiring only one remote FAL to be active for network directory operations.

Note: Utilities like COPY that do a \$PARSE, \$SEARCH-\$OPEN, \$SEARCH-\$OPEN, etc. on wildcard operations, will invoke one FAL for all search requests and an additional FAL for each file subsequently opened.

BUILD_MASK: D4 D4 D0 13 E1 CLRL FABSL_NAM(R8),RO MOVL BEQL WNAMSV SRCHXABS -- NAMSB_NOP(RO),10\$ BBC OC 08 AO 30 **BSBW** NT\$SCAN_XABCHN 50 BLBC RO, FAIL1 #<<DAP\$M_DSP_KEY>!-<DAP\$M_DSP_ALL>!-BICW2 #DAPSM_DSP_ATT,R2 52 01 A8 BISW2 60 00D0 C7 52 105: MOVW R2,NWA\$W_DISPLAY(R7)

Build NWASW_DISPLAY Initialize request mask Indicate this is not a close operation Get NAM block address If NAM block address
If NAM block is not present, or the network specific search flag is not set, then ignore XABs in chain
Scan user XAB chain and check FAL's capabilities; request mask put in R2
Branch on failure to complete scan Ignore Key Definition and Allocation XABs in chain

Request Attributes message to get information for FHCXAB and FAB Save request mask

Build and send DAP Access message to partner. Note that the filespec used is the expanded name string generated from a previous call to SPARSE.

FF97' 90 90 90 30 FF8E C7 05 85 51 0000 0077 0079 0078 007E 84 30 30 89 105: 0081

SEND_ACC: SSETBIT #NWASV_LAST_MSG.(R7)
MOVL #DAPSK_ACC_MSG.RO
BSBW NTSBUILD_HEAD #DAP\$K_DIR_LIST,(R5)+
#DAP\$M_NONFATAL,(R5)+
NT\$GET_FILESPEC MOVB MOVB BSBW MOVZWL NWASW_DISPLAY(R7),R1 BEQL CLRW (R5) +NTSCVT BN4 EXT BSBW

NTSTRANSMIT

RO, FAIL1

BSBW

BSBW BLBC

(required message on first pass) Declare this last message to block Get message type value Construct message header
Store ACCFUNC field
Store ACCOPT field
Store FILESPEC field as a counted ASCII string Get request mask Branch if nothing set Store dummy FAC and SHR fields Store DISPLAY as an extensible field Finish building message Send Access message to FAL Branch on failure

: Save device (volume) Name string

VOL_NAM:

B 8

RMO VO4

Page

0170 CA 00CC C7 61 017	50 50 50 74 DA B9	D0 B0 28	00BC 00C1 00C6 00C9 00CC	116 117 118 119 120	MOVL MOVW MOVC3	RO, FWASQ_QUOTED(R10) RO, NWASW_DIR_OFF(R7) RO,(R1) = afwasq_quoted+4(R10) RECV_NAM	Update descriptor length Update offset for directory string Copy volume name string to resultant name string buffer Get next name string component
			OOCE	22 :+ 23 : Pro	cess (dire	ctory) Name message.	
54 000 55 54 0170 CA 00CE C7 61 0174	C C7 55 55 55 DA44	3C C1 D0 B0 28	00D3 00D7 00DC 00E1 00E4 00E8	24 ;- 25 DIR_N 27 28 29 30 31 32 33	AM:	NWASW_DIR_OFF(R7),R4 RO,R4,R5 R5,FWASQ_QUOTED(R10) R5,NWASW_FIL_OFF(R7) R0,(R1),= @FWASQ_QUOTED+4(R10)[R4] RECV_NAM	Save directory name string Get offset to use Compute new offset Update descriptor length Update offset for file name string Append directory name to resultant name string buffer Get next name string component
			OOEA	35 ;+ 36 : Pro	cess (file) Name message.	
			OOEA	37 :-		, traine message:	
0170 CA 54 0174	E C7 50 50 DA44	3C C1 28	00EA 00EA 00EA 00EA 00EA 00EA 00EF 00F5	34 35 :+ 36 : Pro 37 :- 38 39 FIL_N 40 41 42 43	MOVZWL ADDL3 MOVC3	NWASW_FIL_OFF(R7),R4 RO,R4,FWASQ_QUOTED(R10) RO,(R1),- aFWASQ_QUOTED+4(R10)[R4] #FWASV_REMRESULT,(R10)	Assemble resultant name string Get offset to use Update descriptor length Append file-type-version name to resultant name string buffer Flag receipt of resultant string

VO4

```
0100
0100
                                                        Receive DAP Attributes message from partner and update the user FAB and
                                     0100
                                                        FHCXAB.
                                     0100
                                     0100
                                                        In addition, receipt of an Access Complete message signals normal completion
                                     0100
                                                        of the search (DAP directory-list) function and is mapped into RMS$_NMF.
                                     0100
                                     0100
                                                        Note: The user XAB chain is scanned again to probe all user XABs to protect
                                     0100
                                                                RMS from a user who deletes the address space where an XAB was
                                     0100
                                                                previously found.
                                               356
357
                                     0100
                                     0100
                                     0100
                                                                                                                 (optional--must be requested)
Branch if Attributes message
                                               358
359
360
361
362
363
364
365
                                                    RECV_ATT:
                                    0100
0102
0105
                                                                           #DAP$V DSP ATT -
NWASW DISPEAY(R7),-
RECV EXT ATT
#<<1adapsk_att_msg>!-
                       00
                               E1
                 0000
                                                                                                                  was not requested
           00000084
                                     0106
1C A7
                                                                BISL2
                                                                                                                 Expect response of either Attributes
                                                                           <1aDAP$K CMP MSG>!-
0> DAP$L MSG MASK(R7)
                                     010E
                                                                                                                  or Access Complete message
                                     010E
                                                                            NTSRECE IVE
                     FEEF '
                                     010E
                                                                BSBW
                                                                                                                 Get reply from FAL
                                               366
                                                                           RO,55
FAIL3
                    03 50
                                     0111
                                                                BLBS
                                                                                                                 Branch on success
                    0088
30 A7
                                               367
368
                                     0114
                                                                                                                 Branch on failure
Branch if not Attributes message
                                                                BRW
                               91
                                     0117
                                                    5$:
                                                                CMPB
                                                                           DAPSB TYPE(R7),-
#DAPSK_ATT_MSG
                        02
                                               369
                                     011A
                               12
                                     011B
                                               370
                                                                BNEQ
                                                                            SEARCH_ENDED
                                                                                                                 It must be Access Complete or
                                               371
                                     011D
                                                                                                                   incorrect (success) Status message
                                     011D
        04 64 A7
                        06
                               E1
                                                                BBC
                                                                            #DAP$V FLK,DAP$L FOP1(R7)
                                    0122
0126
0128
0128
012E
0131
0137
                                                                $SETBIT
                                                                           #NWASV_FOP_FLK,(R7)
                                                                                                                 Denote FOP FLK bit set
                               D4
30
                                                                                                                 Indicate this is not a close operation 
Scan user XAB list again
                                                    105:
                                                                CLRL
                     FED5'
                                                                           NT$SCAN XABCHN
RO, FAIL Z
                                                                BSBW
                               59
30
30
                                                                                                                 Branch on failure to scan XABs
Check for undefined record format
                    59 50
                                                                BLBC
                     0149
                                                                BSBW
                                                                            MOD RFM RAT
                                                                            UPDATE FAB
                     0000
                                                                BSBW
                                                                                                                 Update user FAB
                     FEC9"
                                                                BSBW
                                                                            NTSUPDATE_FHC
                                                                                                                Update user FHCXAB
                                               380
                                     0137
                                               381
                                     0137
                                                       Receive DAP Extended Attributes messages from partner and update the user
                                     0137
                                                       DAT, PRO, and SUM XABs. These messages may be received in any order.
                                     0137
                                     0137
                                                       In addition, receipt of an Access Complete message signals normal completion
                                               386
387
                                                     ; of the search (DAP directory-list) function and is mapped into RMS$ NMF.
                                     0137
                                     0137
                                     0137
0137
0137
                                               388
                                               389
390
                                                    RECV_EXT_ATT:
                                                                                                                 (optional -- must be requested)
                                                                                                                 Get DAP message request mask
                00D0 C7
          51
                               3C
04
                                                                           NWASW_DISPLAY(R7),R1
                                                                                                                 Clear valid messages to receive mask
                                     013C
                                               391
                                                                SMAPBIT DAP$V_DSP_PRO,DAP$K_PRO_MSG; Map request for Protection message SMAPBIT DAP$V_DSP_SUM,DAP$K_SUM_MSG; Map request for Summary message SMAPBIT DAP$V_DSP_SUM,DAP$K_SUM_MSG; Map request for Date and Time msg MOVL R2.NWA$L_MSG_MASK(R7); Save valid message mask for use again MOVL NWA$L_MSG_MASK(R7); Expect response of any of these DAP DAP$L_MSG_MASK(R7); messages

BEQL SEARCH_SUCCESS; Branch if no more to receive SSETBIT #DAP$K_CMP_MSG_DAP$L_MSG_MASK(R7)

**Access_complete_is_also_valid**
                                               392
393
                                     013E
                                     0146
                                               394
                                     014E
                C7 52
00D4 C7
1C A7
25
                                     0156
                                                395
                               DÖ
                                     015B
                                               396
                                                     LOOP:
                                     015F
                                               397
                                               398
399
                               13
                                     0161
                                     0163
                                               400
                                     0168
                                                                                                                 Access complete is also valid
                                     0168
016B
                                               401
                               30
E9
                                                                                                                 Get reply from FAL
                                                                BSBW
                                                                            NT$RECEIVE
                                                                BLBC
                                                                            RO.FAIL3
                                                                                                                Branch on failure
```

08 67

		NETW NT\$S	ORK SEARCH EARCH - PER	FILES FORM NET	WORK SEA	E 8 16-5EP-1984 ARCH FUNCT 5-5EP-1984	00:08:05 VAX/VMS Macro V04-00 Page 16:21:09 [RMS.SRC]NTOSEARCH.MAR;1	9 (5)
30	A7 07 0E	91 13	016E 403 0171 404 0172 405 0174 406		BEQL	DAPSB TYPE(R7) #DAPSK CMP MSG SEARCH_ENDED	: Branch if Access Complete message	
			0172 405 0174 406 0174 407 0174 408 0174 409 0174 410		ASSUME ASSUME ASSUME	DAPSK_SUM_MSG EQ 12 DAPSK_TIM_MSG EQ 13 DAPSK_PRO_MSG EQ 14		
E4	AF	9F	0174 411 0177 412 0177 413 0177 415 0177 416 0177 416 0177 416 0177 416 0177 416 0177 418 0182 429 0182 423 0182 423 0182 423 0182 425 0182 425 0182 425 0182 425 0182 425 0182 425 0188 430 0188 431 0188 432 0188 434 0188 434	10\$:	PUSHAB \$CASEB	B^LOOP SELECTOR=DAP\$B TYPE(I BASE=#DAP\$K_SUM_MSG- DISPL=<- NT\$DECODE_SUM- NT\$DECODE_TIM- NT\$DECODE_PRO- >	Push return address on stack (7)-; Dispatch to process message: Summary message Date and Time message Protection message	
			0182 420 0182 421 0182 422 0182 423 0182 424	This	nated.	\$SEARCH has found no s	more files; the search sequence has	
		05	0182 422 0182 423 0182 424 0182 425 0182 426 0187 427 0187 428	SEARCH_ FAIL2:	ENDED: RMSERR RSB	NMF	; Success path for no more files ; Convert Access Complete message ; into no-more-files status code ; Exit with RMS code in RO	
			0188 429 0188 430 0188 431 0188 433 0188 433	This retur	call to ned and	\$SEARCH has found a ma user control blocks ha	atch; a resultant name string has been ave been updated per CTX field.	
			0188 436	; +	SUCCESS:	icknowledge message fro	: Success path for next file found om partner.	
57	26	E1	0188 440 0188 441 0188 442 018C 443	RECV_AC	K: BBC \$SETBIT	#DAP\$V_GEQ_V70,(R7), #DAP\$K_ACK_MSG,DAP\$L	MSG_MASK(R7)	
67 67	50 12 40	30 E9 E4	0191 444 0191 445 0194 446 0197 447 019A 448	10\$:	BSBW BLBC BBSC	NT\$RECEIVE RO,20\$ #NWA\$V_FOP_FLK,(R7), ERRACC	Expect response of Acknowledge message Get reply from FAL Branch on failure Map FOP FLK bit returned by FAL into partial success (SS\$_FILELOCKED)	
	70	05	0198 449	20\$:	RMSSUC RSB	ENANCE	: Return success : Exit with RMS code in RO	

VO

```
An error has occurred while trying to obtain the attributes of the file.

Determine whether to return the error or whether to return success with an appropriate system service code in STV. The latter denotes partial success and that the search can be resumed. Note that the DIRECTORY utility examines the error code in the STV to decide whether to terminate the directory operation or to continue issuing $SEARCH calls (i.e., whether or not the error condition is fatal).

AIL3: CMPW RO,#<RMS$_FLK&^XFFFF> ; Map file locked error BEQL ERRFLK ; CMPW RO,#<RMS$_PRV&^XFFFF> ; Map privilege violation BEQL ERRPRV
```

460 4663 4663 4667 4670 4771 4774 4774 019F 828A 8F FAIL3: 3B 50 450 34 50 01A4 B1 829A 8F 01A6 01AB B1 C002 8F 01AD CMPW RO.#<RMS\$_ACC&^XFFFF> Map file access error 01B2 BEQL ERRACC B1 01B4 COCC 8F CMPW RO.#<RMSS_ATR&^XFFFF> Map read attributes error 01B9 BEQL ERRATR B1 874C 8F 01BB CMPW RO. #<RMS\$_NET&^XFFFF> Check for general network error 0100 BNEQ fatal error if no match FAIL4 40E7 8F 00 CMPW FAB\$L_STV(R8),#^X40E7 Map read attributes error ERRATR BEQL B1 FABSL STV(R8), #^X40E9 ERRPRV 40E9 8F 00 CMPW Map privilege violation 01D0 BEQL B1 12 30 11 00 0102 40EA BF CMPW FABSL_STV(R8), #^X40EA Map no attributes for file error Fatal error if no match 0108 BNEQ FAIL4 #SS\$ FCPREADERR,R1 PARTIAL SUCCESS #SS\$ ACCONFLICT,R1 51 0888 OIDA ERRATR: MOVZWL Generate SS code for RMS\$_ATR 01DF BRB 3C ERRFLK: MOVZWL 51 0800 01E1 Generate SS code for RMS\$_FLK PARTIAL SUCCESS
#SS\$_FICELOCKED,R1
PARTIAL SUCCESS
#SS\$_NOPRIV,R1 01E6 BRB 3Ċ 11 51 08A8 8F 01E8 ERRACC: MOVZWL Generate SS code for RMS\$ ACC BRB 51 30 ERRPRV: MOVZWL : Generate SS code for RMS\$_PRV

Return partial success to the user on call to \$SEARCH (i.e., STS = RMS\$_SUC and STV = SS\$_errorcode).

ASSUME FAB\$L_STS+4 EQ FAB\$L_STY

01F2 493 PARTIAL_SUCCESS:
01F2 494 RMSSUC
7D 01F5 495 MOVQ RO,FAB\$L_STS(R8)

489

08 A8

50

019F

019F

019F

Return success
Update FAB\$L_STV

If FAL returned an error via a DAP Status message, then set a flag to denote that the next call to \$SEARCH must send a DAP Continue Transfer message to restart the DAP directory-list operation at the remote node!

Branch if reply from FAL was not a Status message

Denote Continue Transfer msg required Exit with RMS code in RO

Process the DAP FOP field.

00B00200 8F

04 A8

52

CA

MOVW

MOVL DAP\$L_FOP1(R7),R1 CLRL R2
DAP\$V_CTG,FAB\$V_CTG
DAP\$V_CBT,FAB\$V_CBT
DAP\$V_RCK,FAB\$V_RCK
DAP\$V_WCK,FAB\$V_WCK
#<<FAB\$M_CTG>!<FAB\$M_CBT>!<FAB\$M_RCK>!<FAB\$M_WCK>!O>,FAB\$L_FOP(R8)
R2,FAB\$L_FOP(R8) SMAPBIT \$MAPBIT **SMAPBIT** SMAPBIT BICL2 BISL2 RSB

Get DAP FOP bits Clear resultant FOP bits Map CTG bit Map CBT bit Map RCK bit Map WCK bit Clear FOP bits in user FAB that may be updated

VO

Update FOP field Exit

VO

NTOSEARCH Symbol table	NETWORK SEARCH FILES	1 8 16-SEP-1984 00:08:05 VAX/VMS Macro V04-00 5-SEP-1984 16:21:09 [RMS.SRC]NTOSEARCH.MAR;1	
SS.PSECT_EP SSCOUNT SSRMSTEST SSRMS_PBUĞCHK SSRMS_TBUGCHK SSRMS_UMODE BUILD_MASK DAPSB_ACCFUNC DAPSB_ACCFUNC DAPSB_BITCHT DAPSB_BSZ DAPSB_BSZ DAPSB_BSZ DAPSB_CONFUNC DAPSB_DCODE_FID DAPSB_DCODE_FID DAPSB_DCODE_MAC DAPSB_TILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_FILESYS DAPSB_DCODE_MAC DAPSB_DC	= 000000003 = 0000001A = 00000008 = 00000040 00000041 00000050 00000050 0000052 00000044 0000019 000001A 0000047 0000045 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000045 00000046 00000046 00000046 00000046 00000046 00000048 00000046 00000006 = 00000006 = 00000006	DAP\$L_CHMA DAP\$L_CRC RSLT DAP\$L_DCODE_STS DAP\$L_DCODE_STS DAP\$L_EBK DAP\$L_EBK DAP\$L_BK DAP\$L_BC DAP\$L_COUNTY DAP	

NTOSEARCH Symbol table	NETWORK SEARCH FILES	J 8 16-SEP-1984 00:03:05 VAX/VMS Macro V04-00 5-SEP-1984 16:21:09 [RMS.SRC]NTOSEARCH.MAR;1	Page 14 (8)
	= 00000006 = 00000026 = 00000032 = 00000005 = 00000048 00000040 00000044 00000044 00000044 00000044 0000001EB R 01 000001EB R 01 000001EF R 01 000001EF R 01 000001EF R 01 = 0000003F = 0000001E = 0000001E	NT\$BUILD TAIL	Page 14 (8)
ABSM_CTG ABSM_CCK ABSM_WCK ABSV_CBT ABSV_CTG ABSV_CTG ABSV_CK ABSV_BLS ABSW_BLS ABSW_MRS AIL1 FAIL2 FAIL3 FAIL4 FIL NAM FWASQ_QUOTED FWASV_REMRESULT IFBSL_NWA_PTR LOOP MERGE_NAM MOD_RFM_RAT NAMSB_NOP NAMSV_SRCHXABS NTSBUG_NAMETYPE NTSBUILD_HEAD	= 00200000 = 00100000 = 008000000 = 00000200 = 00000015 = 00000017 = 00000036 00000036 00000187 R 01 00000187 R 01 00000187 R 01 00000187 R 01 00000187 R 01 00000188 R 01 00000188 R 01 000000188 R 01 000000088 = 000000008	NWA\$L KEYXABADR NWA\$L PROXABADR NWA\$L PROXABADR NWA\$L PROXABADR NWA\$L SUYE FLGS NWA\$L SUMXABADR NWA\$L SUMXABADR NWA\$L THREAD NWA\$L TATTR NWA\$L XLTATTR NWA\$L XLTATTR NWA\$L XLTATTR NWA\$L XLTONT NWA\$L XLTSIZ NWA\$L XLTSIZ NWA\$Q ACS NWA\$Q ACS NWA\$Q BLD NWA\$Q BLD NWA\$Q BLD NWA\$Q INDDE NWA\$Q INDDE NWA\$Q INDDE NWA\$Q INDDE NWA\$Q COOO0000000000000000000000000000000000	

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NTOSEARCH Symbol table	NETWORK SEARCH FILES	16-SEP-1984 00:08:05 VA 5-SEP-1984 16:21:09 [R	X/VMS Macro V04-00 MS.SRCJNTOSEARCH.MAR;1
NWAST AUXBUF NWAST DAP NWAST ITM ATTR NWAST ITM END NWAST ITM LST NWAST ITM STRING NWAST ITM STRING NWAST NOBBUF NWAST NODEBUF NWAST RCVBUF NWAST SCAN NWAST SCAN NWAST TEMP NWAST XLTBUF1 NWAST XLTBUF2 NWAST XMTBUF NWAST XMTBUF NWAST XMTBUF NWAST TEMP NW	000005E0 00000000 00000200 00000224 00000200 00000218 00000169 000001A0 00000120 00000120 000003C0 = 00000012 = 0000001E = 000000000 0000000000 00000000000 000000		
NWASW_FIL_OFF NWASW_JNLXABJOP PARTIAL_SUCCESS PIOSA_TRACE RECV_ACK RECV_ATT RECV_EXT_ATT RECV_NAM RMSS_ACC RMSS_ATR RMSS_FLK RMSS_NET RMSS_NET RMSS_PRV	00000100 R 01 00000137 R 01 00000087 R 01 = 00010002 = 00010002		
RMSS-PRV SEARCH_ENDED SEARCH_SUCCESS SEND_ACC SEND_CONF SEND_CON SSS_ACCONFLICT SSS_FCPREADERR SSS_FILELOCKED SSS_NOPRIV TPTSL_NTSEARCH UPDATE_FAB	= 0001828A = 0001874C = 000182CA = 0001829A 00000182 R 01 000000188 R 01 0000005F R 01 0000002D R 01 00000015 R 01 = 00000800 = 00000888 = 00000848 = 00000848		
SSS_FILELOCKED SSS_NOPRIV TPTSL_NTSEARCH UPDATE_FAB VOL_NAM	= 000008A8 = 00000024 ******* X 01 00000204 R 01 000000BC R 01		

VAX/VMS Macro V04-00 [RMS.SRC]NTOSEARCH.MAR:1

PSECT name

ABS

SABS\$

NF SNE TWORK

Psect synopsis

Allocation PSECT No. Attributes

00000000 (0.) 00 (0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE 0000028D (653.) 01 (1.) PIC USR CON REL GBL NOSHR EXE RD NOWRT NOVEC BYTE 00000800 (2048.) 02 (2.) NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

16-SEP-1984 00:08:05 5-SEP-1984 16:21:09

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization Command processing	135	00:00:00.08	00:00:01.13
Pass 1	132 492	00:00:20.58	00:01:02.81
Symbol table sort Pass 2 Symbol table output	120 33	00:00:03.54	00:00:08.63
Psect synopsis output Cross-reference output	2	00:00:00.02	00:00:00.02
Assembler run totals	816	00:00:28.21	00:01:26.24

The working set limit was 1650 pages.
111320 bytes (218 pages) of virtual memory were used to buffer the intermediate code.
There were 110 pages of symbol table space allocated to hold 2101 non-local and 30 local symbols.
575 source lines were read in Pass 1, producing 15 object records in Pass 2.
33 pages of virtual memory were used to define 32 macros.

! Macro library statistics !

Macro library name

Macros defined

_\$255\$DUA28:[RMS.OBJ]RMS.MLB;1
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

23 5 28

2428 GETS were required to define 28 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:NTOSEARCH/OBJ=OBJ\$:NTOSEARCH MSRC\$:NTOSEARCH/UPDATE=(ENH\$:NTOSEARCH)+LIB\$:RMS/LIB

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